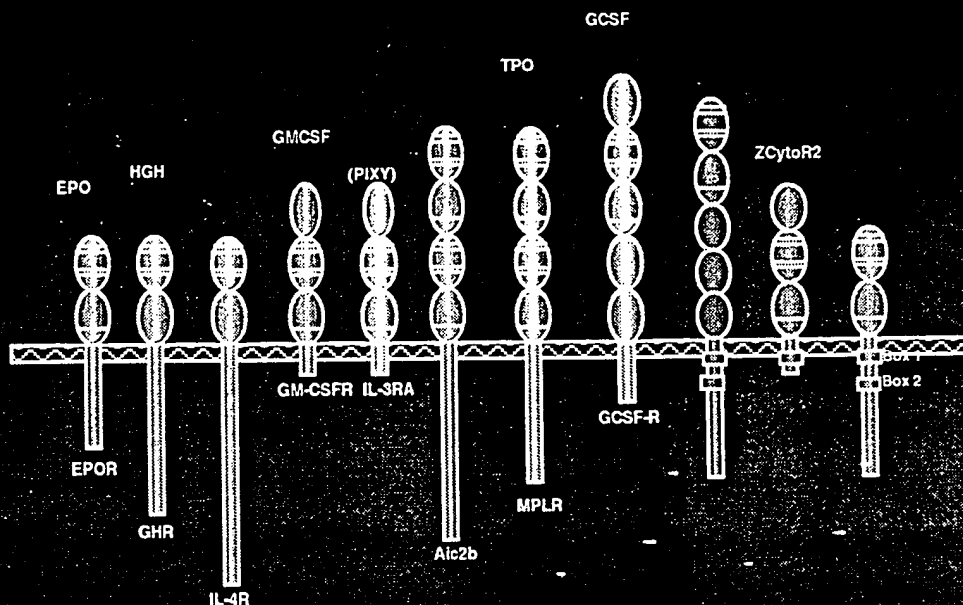


**Three Novel Receptors in the WSXWS Family Offer  
Potential for Three Novel Cytokine Therapeutics**



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**The WSXWS Receptor Project Seeks to Identify Novel Therapeutics  
Which Play Important Roles in Tissue Regeneration**

Hematopoiesis may represent the best-understood paradigm for tissue regeneration from pluripotent "stem cells".

Similar processes involved in regeneration of other tissues probably utilize conserved mechanisms and conserved molecular structures.

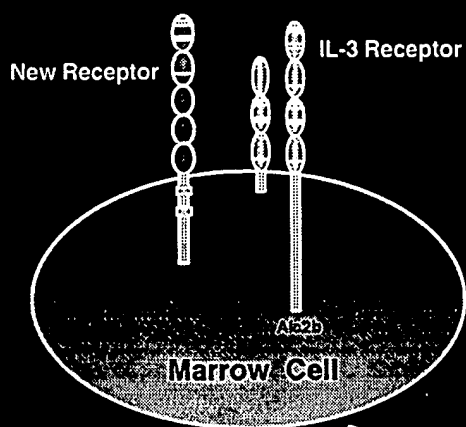
Novel Cytokine Receptors will be much more recognizable structures than their ligands.

The project will focus on the discovery and use of novel receptors to find novel cytokine ligands which may play roles in:

1. Bone regeneration
2. Islet replenishment
3. Other significant therapeutic opportunities

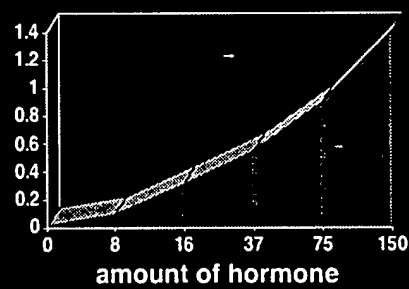
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# Expression Cloning Assay for Orphan Receptor Ligands



+ IL-3

Cell  
Growth



- IL-3

Cell Death

+ Ligand

???

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